10/579365

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



PCT

(43) International Publication Date 14 September 2006 (14.09.2006)

- (51) International Patent Classification: *B01D 35/14* (2006.01)
- (21) International Application Number:

PCT/KR2005/004344

(22) International Filing Date:

16 December 2005 (16.12.2005)

(25) Filing Language:

English

(26) Publication Language:

English

- (30) Priority Data: 10-2005-0020547 11 March 2005 (11.03.2005) KR
- (71) Applicant (for all designated States except US): MICRO-FILTER CO., LTD [KR/KR]; 162-1, Sansoo-ri, Duksan-myun, Jincheong-gun, Chungcheongbuk-do 365-842 (KR).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): KIM, Min-won [KR/KR]; 5, Sootae-ri, Daeso-myun, Eumseong-gun, Chungcheongbuk-do 365-842 (KR).
- (74) Agent: PARK, Hee-seop; #503 Seongji Heights 3, 642-6 Yeoksam-dong, Kangnam-gu, Seoul 135-717 (KR).

(10) International Publication Number WO 2006/095954 A1

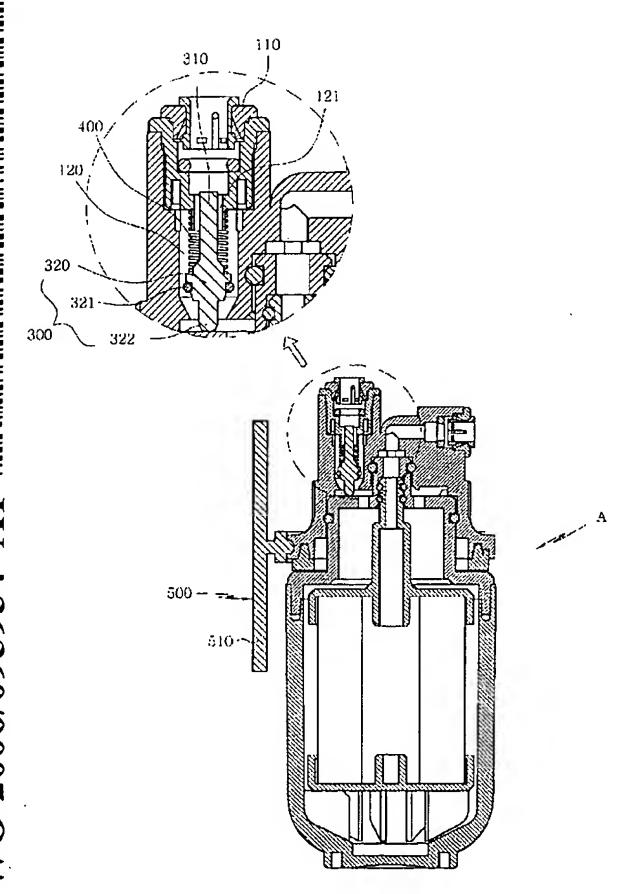
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: FLUID FLOW INTERRUPTION MEANS FOR FILTER OF WATER PURIFIER



(57) Abstract: A filter (A) for a water purifier includes a head (100) which is defined with a guide passage (120) communicated with an inlet port (110) and has an outlet port (130), and a filter body (200) which purifies the fluid flowing therein through the guide passage (120) of the head (100) and transfers purified fluid to the outlet port (130) of the head (100). The filter (A) comprises a fluid flow interrupter (300) which is disposed in the guide passage (120) to controllably open and close the guide passage (120) by spring force when the head (100) and the filter body (200) are coupled to and decoupled from each other, and at least one through-hole (210) which is defined on an upper end of the filter body (200) so that fluid having passed through the guide passage (120) can flow through the through-hole (210) into the filter body (200).

WO 2006/095954 A1

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.